

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A preparation comprising ~~which contains~~ a cell extract for cell-free protein synthesis prepared by substantially excluding an endosperm portion of said cell extract, thereby substantially excluding the systems ~~involving~~ involved in inhibiting the cell extract's protein synthesis reactions ~~reaction of said own protein and for characterized in that an endosperm which contaminates an extract of embryo, is completely removed therefrom.~~

Claim 2 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein substantially excluding said ~~the method to exclude systems involved in inhibiting the cell extract's protein synthesis reactions involving in the inhibition of reaction of its own protein synthesis is characterized by~~ comprises treating said cell extract of embryo using with a nonionic surfactant as a solvent.

Claim 3 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 2, wherein ~~the method to treat extract of embryo using nonionic surfactant is characterized~~ cell extract is further treated by using an acoustic wave in addition to said surfactant to continue until washing do not become turbid.

Claim 4 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein the ~~inhibition~~ inhibiting of said systems involved in

inhibiting the cell extract's protein synthesis reactions ~~of the own reaction of protein synthesis~~
~~excluding the systems~~ serves as ~~controlling deadenination~~ to control deactivation of ribosomes
present in said cell extract.

Claim 5 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein a substance is present ~~added~~ which controls ~~deadenination~~ deadenylation of ribosomes characterized by excluding systems involving ~~in~~ the inhibition of ~~its own reaction of~~ protein synthesis.

Claim 6 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein the cell extract is from an embryo and said embryo is treated by adding nonionic surfactant and a substance controlling ~~deadenination~~ deadenylation of ribosome by excluding systems involving the inhibition of protein synthesis.

Claim 7 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 1, ~~characterized by formulating a substance containing cell extract for cell-free protein synthesis into a~~ wherein said preparation ~~which~~ can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 8 (previously presented): A preparation containing cell extract for cell-free protein synthesis according to Claim 7, wherein the preparation is in dried form.

Claim 9 (previously presented): A preparation containing cell extract for cell-free protein

synthesis according to Claim 8, wherein the preparation is formulated by freeze-drying.

Claim 10 (currently amended): A method for cell-free protein synthesis in a system which is capable of recovering the synthesized product protein, ~~characterized in that said system~~ uses said method comprising utilizing the preparation of claim 1 containing cell-extract for cell-free protein synthesis, a reaction vessel used in the system is prepared with a carrier capable of molecular sieving, a material substance pertaining to the system is developed with the carrier as a moving phase, and during the development the reaction of cell-free protein synthesis is carried out, thereby obtaining the product.

Claim 11 (currently amended): A method for cell-free protein synthesis in a system which is capable of recovering the synthesized product protein, ~~characterized in that said system~~ uses said method comprising utilizing the preparation of claim 1 containing cell-extract for cell-free protein synthesis, ~~the~~ a reaction vessel used in the system is prepared by dialysis, ~~the~~ a material substance pertaining to the cell-free protein synthesis system and the synthesized product protein of the cell-free protein synthesis reaction are separated through dialysis membrane, thereby obtaining the product.

Claim 12 (withdrawn) The means for cell-free protein synthesis according to claim 10, wherein the synthesis is continuous, and implements are selected from addition, storage, exchange and discharge, regarding a factor chosen from at least mRNA, a template for synthesis reaction, enzyme for energy recycling system, substrate, and energy source.

Claim 13 (currently amended): A preparation containing cell-extract for cell-free protein synthesis, comprising ~~characterized in that the preparation contains~~ an extract of wheat embryo obtained after subjecting a treatment including a process for washing the wheat embryo with nonionic surfactant to completely remove any endosperm contaminants from the wheat embryo, that a ~~deadenation~~ deadenylation rate of the wheat extract is 1% or lower, the dry preparation of the wheat embryo extract maintains stability under room temperature; and that in a continuous cell-free protein synthesis involving a replenishment of the substrate and ~~others~~ other substances for protein synthesis using said wheat extract, the synthesis shows constant performance even in 24th hour after starting the synthesis and shows at least 1 mg/ml or higher in synthesis level in said 24th hour.

Claim 14 (withdrawn) The means for continuous cell-free protein synthesis according to Claim 12, wherein an apparatus comprises a structure including an impregnation vessel and a lid mounted to hermetically seal the vessel, and supports a channel with inlet to introduce into the apparatus substrate and/or energy source and outlet leading to chamber for outer solution for dialysis in impregnation vessel, a channel with inlet existing in the solution chamber in impregnation vessel as a measure to discharge metabolite, in outer dialysis solution and outlet leading to outside of the apparatus, and inlet to introduce mRNA and/or enzyme for energy recycling system and a medium having a function of dialysis membrane existing in a solution chamber for outer solution for dialysis in the impregnation vessel.

Claim 15 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 2, wherein substantially excluding said systems involved in

~~inhibiting the cell extract's protein synthesis reactions the inhibition of the own reaction of~~
~~protein synthesis excluding the systems serves to control as controlling deadenination~~
deadenylation of ribosome.

Claim 16 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 3, wherein substantially excluding said systems involved in
~~inhibiting the cell extract's protein synthesis reactions the inhibition of the own reaction of~~
~~protein synthesis excluding the systems serves to control as controlling deadenination~~
deadenylation of ribosome.

Claim 17 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 2, wherein said ~~characterized by formulating a substance~~
~~containing cell extract for cell free protein synthesis into a preparation which~~ can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 18 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 3, ~~characterized by formulating a substance containing cell~~
~~extract for cell free protein synthesis into a~~ wherein said preparation which can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 19 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 1 [[4]], further comprising a synthesized substrate, amino acid, an
energy source, a surfactant, an ionic compound, or combinations thereof ~~characterized by~~

~~formulating a substance containing cell extract for cell-free protein synthesis into a~~ wherein said
preparation ~~which~~ can be stored in room temperature and which maintains biological functions of
said cell extract.

Claim 20 (currently amended): A preparation which contains cell extract for cell-free protein
synthesis according to claim 5, ~~characterized by formulating a substance containing cell extract for~~
~~cell-free protein synthesis into a~~ wherein said preparation ~~which~~ can be stored in room temperature
and which maintains biological functions of said cell extract.

Claim 21 (currently amended): A preparation which contains cell extract for cell-free protein
synthesis according to claim 6, ~~characterized by formulating a substance containing cell extract for~~
~~cell-free protein synthesis into a~~ wherein said preparation ~~which~~ can be stored in room temperature
and which maintains biological functions of said cell extract.

Claim 22 (withdrawn): The means for cell-free protein synthesis according to claim 11,
wherein the synthesis is continuous, and implements are selected from addition, storage, exchange
and discharge, regarding a factor chosen from at least mRNA, a template for synthesis reaction,
enzyme for energy recycling system, substrate, and energy source.

Claim 23 (previously presented): A method of synthesizing protein using the preparation
prepared according to claim 1.

Claim 24 (previously presented): A method of synthesizing protein using the preparation

prepared according to claim 2.

Claim 25 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 3.

Claim 26 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 4.

Claim 27 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 5.

Claim 28 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 6.

Claim 29 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 13.

Claim 30 (withdrawn): A protein synthesized by the method of claim 23.